

JUN 07 2007 W

Docket No.: MRI-062 (PATENT)

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: John E. Monahan *et al.* 

Application No.: 10/645756

Filed: August 20, 2003 Art Unit: 1643

For: COMPOSITIONS, KITS, AND METHODS

FOR IDENTIFICATION, ASSESSMENT,

PREVENTION, AND THERAPY OF

CERVICAL CANCER

Examiner: S. L. Rawlings

Confirmation No.: 8064

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### **DECLARATION PURSUANT TO 37 CFR §1.132**

#### Dear Sir:

We, John E. Monahan, a citizen of the United States of America residing at 942 West Street, Walpole, Massachusetts 02081, Yan Chen, a citizen of China residing at 26A Plymouth Street, Apartment 2, Cambridge, Massachusetts 02141, and Xumei Zhao, a citizen of the United States of America residing at 6 Wildwood Lane, Burlington, MA 01803, hereby declare as follows:

- (1) We are joint inventors of the subject matter claimed in the above-identified patent application.
- (2) We are named inventors, along with Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt and Sebastian Hoersch, in U.S. Patent Application Publication No. 2003/0087270A1.

Application No.: 10/645756 Docket No.: MRI-062

(3) We invented the subject matter disclosed in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application. Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt, and Sebastian Hoersch are *not* co-inventors of the subject matter claimed in the above-identified patent application. Any disclosure contained in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application was derived from us rather than the other named inventors in U.S. Patent Application Publication No. 2003/0087270A1 nothwithstanding the inventorship of the published application. Thus, the foregoing disclosure does not constitute an invention "by another."

We hereby declare that all statements made herein of our knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

John E. Monahan, Ph.D.	Date 2007
Yan Chen, Ph.D.	Date
Xumei Zhao Ptr.D: XM >	June. 1, 200)

JUN 07 2007 E

Docket No.: MRI-062

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: John E. Monahan et al.

Application No.: 10/645756

Filed: August 20, 2003

Art Unit: 1643

For: COMPOSITIONS, KITS, AND METHODS

FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF

CERVICAL CANCER

Examiner: S. L. Rawlings

Confirmation No.: 8064

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# DECLARATION PURSUANT TO 37 CFR §1.132

Dear Sir.

We, John E. Monahan, a citizen of the United States of America residing at 942 West Street, Walpole, Massachusetts 02081, Yan Chen, a citizen of United States residing at 25 College Avenue, Apartment 406, Nanuet, New York 10954, and Xumei Zhao, a citizen of the United States of America residing at 6 Wildwood Lane, Burlington, MA 01803, hereby declare as follows:

- (1) We are joint inventors of the subject matter claimed in the above-identified patent application.
- (2) We are named inventors, along with Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt and Sebastlan Floersch, in U.S. Patent Application Publication No. 2003/0087270A1.

Application No.: 10/645756

plication Publication No.

Docket No.: MR1-062

(3) We invented the subject matter disclosed in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application. Robert Schlegel, Shubhangi Kamatkar, Manjula Gannavarapu, Karen Glatt, and Schastian Hoersch are not co-inventors of the subject matter claimed in the above-identified patent application. Any disclosure contained in U.S. Patent Application Publication No. 2003/0087270A1 which relates to the invention claimed in the above-identified patent application was derived from us rather than the other named inventors in U.S. Patent Application Publication No. 2003/0087270A1 nothwithstanding the inventorship of the published application. Thus, the foregoing disclosure does not constitute an invention "by another."

We hereby declare that all statements made herein of our knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

John E. Monahan, Ph.D.	Date
Yar Chen, Ph.D.	June 4, 2007 Dato
Xumei Zhao, Ph.D.	Date





UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 23, 2005

LAHIVE & COCKFIELD, LLP GIULIO A. DECONTI, JR. 28 STATE STREET BOTON, MA 02109





UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/23/2004 REEL/FRAME: 015813/0793

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: MRI-062

ASSIGNOR:

MONAHAN, JOHN E. DOC DATE: 06/18/2004

**ASSIGNOR:** 

ZHAO, XUMEI DOC DATE: 07/16/2004

**ASSIGNOR:** 

CHEN, YAN DOC DATE: 09/10/2004

ASSIGNOR:

GLATT, KAREN DOC DATE: 06/24/2004

ASSIGNOR:

KAMATKAR, SHUBHANGI DOC DATE: 06/22/2004

015813/0793 PAGE 2

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC. 75 SIDNEY STREET CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 10645756

FILING DATE: 08/20/2003

PATENT NUMBER: ISSUE DATE:

TITLE: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,

PREVENTION, AND THERAPY OF CERVICAL CANCER

MARCUS KIRK, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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γ.	To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.			
TPE	Name of conveying party(ies)/Execution Date(s):     Annual of conveying party(ies)/Execution Date(s):			
0 7	John E. MONAHAN (06/18/2004), Xumei ZHAO			
) og	(07/16/2004), Yan CHEN (09/10/2004), Karen	Name: MILLENNIUM PHARMACEUTICALS, INC.		
JUN 07 2007	யூGLATT (06/24/2004), and	Internal Address:		
ي د	Execution Dates: in parentheses after inventor name	Street Address:		
TO FRADEIANT	Additional name(s) of conveying party(ies) attached? X Yes No			
	3. Nature of Conveyance:	75 Sidney Street		
	X Assignment Merger			
		City: Cambridge		
	Government Interest Assignment	State: Massachusetts		
	Executive Order 9424, Confirmatory License	Country: United States of America Zip: 02139		
	Other	Additional name(s) & address(es) Yes X No		
		attached:		
	4. Application or patent number(s):	his document is being filed together with a new application.		
	A. Patent Application No.(s)	B. Patent No.(s)		
	10/645756	<u> </u>		
	Additional numbers attached?	Yes X No		
	5. Name and address to whom correspondence	6. Total number of applications and		
	concerning document should be mailed:	patents involved:		
	Name: Giulio A. DeConti, Jr.			
	LAHIVE & COCKFIELD, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00		
	Internal Address: Atty. Dkt.: MRI-062	Authorized to be charged by credit card		
	Street Address: 28 State Street	X Authorized to be charged to deposit account		
		Enclosed		
		None required (government interest not affecting title)		
İ	City: Boston	8. Payment Information:		
1	State: MA Zip: 02109	a. Credit Card Last 4 Numbers		
	Phone Number: (617) 227-7400	Expiration Date		
	Fax Number: (617) 742-4214	b. Deposit Account Number 12-0080		
	Email Address:	Authorized User Name Giulio A. DeConti, Jr.		
	9. Signature.			
	- Ull Anti-	September 21, 2004		
	Signature	Date		
	DeAnn F. Smith - 36,683	Total number of pages including cover sheet, attachments, and documents:		
Ĺ	Name of Person Signing	oneot, attachments, and documents.		
r.				
li	I hereby certify that this correspondence is being deposited with the U	S. Postal Service with sufficient postage as First Class Mail, in		
1	an envelope addressed to: MS Assignment Recordation Services, Dir Alexandria, VA 22313-1450, on the date shown below.	rector of the US Patent and Trademark Office, P.O. Box 1450,		
ii	Dated: September 21, 2004 Signature:	(DeAnn F. Smith)		
	Olymatics. Sec. 10	(DEATHER, SHILLI)		
09/24/2004 GT	DN11 00000026 120080 10645756			

Form PTO-1595	RECOR	RDATION FORM COVER SHEET (CONTINUED)	
Additional Conve	eying Party(ies)/Exec	cution Date(s) (1. Continued):	
Shubhangi KAMATI		•	
Additional Assigr	nees (2. Continued):		
Assignee Name:			
Internal Address:			
Street Address:			
City:	State:	Country:	Zip:
Internal Address:			<del></del>
Street Address:			
City:	State:	Country:	Zip:
Assignee Name:			
Internal Address:			
Street Address:			
City:	State:	Country:	Zip:
Additional Applica	tions and/or Patents	(4. Continued):	
Additional Patent Applicatio A. Continued:		Additional Patent Numbers 4B. Continued:	
			.
	Autore		
	Additional numbers a	ttached? Yes No	

## ASSIGNMENT BY INVENTORS

WE, John E. MONAHAN; Xumei ZHAO; Yan CHEN; Karen GLATT; and Shubhangi KAMATKAR, of Walpole, Massachusetts; Wayland, Massachusetts; Acton, Massachusetts; Natick, Massachusetts; and Newton, Massachusetts, respectively, in consideration of One Dollar and other valuable consideration paid to us by

# MILLENNIUM PHARMACEUTICALS, INC.

a Corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, Massachusetts 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

# MILLENNIUM PHARMACEUTICALS, INC.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER

described in an application
Executed by us of even date herewith and about to be filed
or
X Application No. 10/645756, filed on August 20, 2003
This application claims the benefit of the following provisional application(s):
X Application No. 60/404,770, filed on August 20, 2002

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said Corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

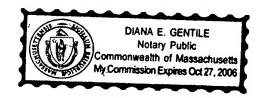
And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

John E Maraho
John E. Monahan
Date: June 18, 2004
United States of America
State of Massachuse He ) ss.:
County of Middlesex
On this 18th day of Jone, before me, the the undersigned notary public, personally appeared John E. Manshan (name of document signer), proved to me through satisfactory evidence of identification, which was MA Lieux #53668360, to be the person whose name is signed on the preceding or attached document in my presence.
My commission expires (0/27/2006)
/ /

Xumei Zhao

Date:
United States of America
State of Massachuse He ) ss.:
County of middlesex)
On this 16th day of July, 3004 before me, the the undersigned notary public, personally appeared Xunci Zhao
(name of document signer), proved to me through satisfactory evidence of identification,
which was MA License # 213399591, to be the person whose name
is signed on the preceding or attached document in my presence.
Siana Settle (official signature and seal of notary)
My commission expires October 27, 2006



Date: <u>6/24/04</u>
United States of America )
State of Sta
$\frac{\gamma \gamma_{\text{obs}}(\chi)}{(\chi)^{2}}$
On this 24 m day of June, 2004 before me, the
the undersigned notary public, personally appeared the control of
(name of document signer), proved to me through satisfactory evidence of identification,
which was Draw's worse , to be the person whose name
is signed on the preceding or attached document in my presence.
(official signature and seal of notary)
My commission expires 6/18/2010
Notary Public Commonwealth of Massachusetts My Commission Expires June 18, 2010

- Gara A Glas

	<i>y</i> ,
	Shubhangi Kamatkar
Date: 6/22/04.	
United States of America	)
State of Massachuse Ho	_) ss.:
State of America  State of Marrachuse Hs  County of Middlesex	)
On this and day of June	
the undersigned notary public, personally app	
(name of document signer), proved to me thr	
which was personally known	, to be the person whose name
is signed on the preceding or attached docum	, to be the person whose name tent in my presence.
Diana C. Dentile	(official signature and seal of notary)
My commission expires $10/3$	7/206

- Janeta
Date:
United States of America )
State of Massachuse Hs ) ss.:
County of Middlesex
On this 10th day of September, 2004 before me, the the undersigned notary public, personally appeared 1 Chen (name of document signer), proved to me through satisfactory evidence of identification, which was 1685 8715/ , to be the person whose name
is signed on the preceding or attached document in my presence.
Liana Gentile (official signature and seal of notary)
My commission expires October 27, 2006





UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

ŚEPTEMBER 14, 2006

PTAS

\*1033024333\*

GIULIO A. DECONTI, JR. LAHIVE & COCKFIELD, LLP 28 STATE STREET BOSTON, MA 02109

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/25/2006

REEL/FRAME: 018253/0883

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: MRI-035RCECN

ASSIGNOR:

SCHLEGEL, ROBERT

DOC DATE: 09/12/2002

ASSIGNOR:

CHEN, YAN

DOC DATE: 09/06/2002

ASSIGNOR:

ZHAO, XUMEI

DOC DATE: 09/10/2002

ASSIGNOR:

MONAHAN, JOHN E.

DOC DATE: 09/06/2002

ASSIGNOR:

KAMATKAR, SHUBHANGI

DOC DATE: 04/01/2004

**ASSIGNOR:** 

GANNAVARAPU, MANJULA

DOC DATE: 09/09/2002

018253/0883 PAGE 2

ASSIGNOR:

GLATT, KAREN

DOC DATE: 09/10/2002

ASSIGNOR:

HOERSCH, SEBASTIAN

DOC DATE: 09/16/2002

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC. 40 LANDSDOWNE STREET

CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 11510530

PATENT NUMBER:

FILING DATE: ISSUE DATE:

TITLE:

PAULA MCCRAY, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

• •	Form PTO-1595 (Rev. 08/05) OMB No. 0651-0027 (exp. 6/30/2008)	-2006 U.S. DEPARTMENT OF COMMERCE United S Patent and Trademark Office	
1 Sign	10300	United s Patent and Trademark Office	
2	To the Director of the U.S. Patent and Trademark Office:		
2)		the state of the s	
	1. Name of conveying party(ies): Robert SCHLEGEL (9/12/2002), Yan CHEN	2. Name and address of receiving party(ies)	
E 40G	(9/6/2002), Xumei ZHAO (9/10/2002), John E. MONAHAN (9/6/2002),	MILLENNIUM PHARMACEUTICALS, Name: INC.	
1	Additional name(s) of conveying party(les) attached? X Yes No	Internal Address: Street Address:	
IN OF EDDS BY	3. Nature of conveyance/Execution Date(s):	325	9
	Execution Date(s): in parentheses after inventor name  X Assignment Merger Change of Name	40 Landsdowne Street	250
EXPERIENCE OF THE PARTY OF THE		1129	80
	Security Agreement Joint Research Agreement  Government Interest Assignment	City: Cambridge	
	Executive Order 9424, Confirmatory License	State: Massachusetts	
	Other	Country: United States of America Zip: 02139 Additional name(s) & address(es)	
		attached? Yes X No	
j	4. Application or patent number(s):	This document is being filed together with a new application.	
	A. Patent Application No.(s)  This application	B. Patent No.(s)	
•	mis application		
	Additional numbers attached	Yes X No	
	5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
	Name: Giulio A. DeConti, Jr. LAHIVE & COCKFIELD, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
	Internal Address: Atty. Dkt.: MRI-035RCECN	Authorized to be charged by credit card	
	Street Address: 28 State Street	X Authorized to be charged to deposit account	
		Enclosed	
		None required (government interest not affecting title)	
	City: Boston	8. Payment Information	
	State: MA Zip: 02109	a. Credit Card Last 4 Numbers	
	Phone Number: (617) 227-7400  Fax Number: (617) 742-4214	Expiration Date	
	Email Address:	b. Deposit Account Number 12-0080 3 Authorized User Name Giulio A. DeConti, Jr.	
[	9. Signature:	2 A	
	Signature	August 25, 2006	
	Maria Laccotripe Zacharakis, Ph.D., J.D 56,	266 Total number of pages including cover sheet, attachments, and documents:	
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ſĒ	Express Mail Label No. EV 608875465 US Dated: August 25, 2006	<b>8</b> 5	
L	Dated: August 25, 2006	45.00 April 1995	
		\$ &	

Form PTO-1595	RETO	PRDATION FORM COVER SHEET (COntinued)	(
Additional Conveyi	ng Party(ies)/Exe	ecution Date(s) (1. Continue	ed):
	R (4/1/2004), Maniul:	a GANNAVARAPU (9/9/2002), K	
Additional Assigned	es (2. Continued)	:	
Assignee Name:			
Internal Address:			
Street Address:			·
City:	State:	Country:	Zip:
Assignee Name:			
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Additional Applications and/or Patents (4. Continued):			
dditional Patent Application N A. Continued:		Additional Patent Numbers 4B. Continued:	
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	Additional numbers	attached? Yes N	lo

Form PTO-1595 (Rev. 08/05) OMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FO PATENT	
	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Robert SCHLEGEL (9/12/2002), Yan CHEN (9/6/2002), Xumei ZHAO (9/10/2002), John E.	MILLENNIUM PHARMACEUTICALS,
MONAHAN (9/6/2002),	Name: INC.
Additional name(s) of conveying party(ies) attached? X Yes No	Internal Address:  Street Address:
Nature of conveyance/Execution Date(s):	
Execution Date(s): in parentheses after inventor name	40 Landsdowne Street
x Assignment Merger Change of Name	
Security Agreement Joint Research Agreement	City: Cambridge
Government Interest Assignment	State: Massachusetts
Executive Order 9424, Confirmatory License	
Other	Country: United States of America Zip: 02139  Additional name(s) & address(es) Yes X No
	attached?
4. Application or patent number(s):	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
This application	
Additional numbers attached	Yes X No
. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Giulio A. DeConti, Jr.	
LAHIVE & COCKFIELD, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: MRI-035RCECN Street Address: 28 State Street	Authorized to be charged by credit card
20 State Street	X Authorized to be charged to deposit account
	Enclosed .
	None required (government interest not affecting title)
City: Boston	8. Payment Information
State: MA Zip: 02109	a. Credit Card Last 4 Numbers
Phone Number: (617) 227-7400	Expiration Date
Fax Number: (617) 742-4214	b. Deposit Account Number 12-0080  Authorized User Name Giulio A. DeConti, Jr.
Email Address: Signature:	Audionzed Oser Name Giullo A. DeConti, Jr.
	August 25, 2006
Signature	Date
Maria Laccotripe Zacharakis, Ph.D., J.D 50	6,266 Total number of pages including cover sheet, attachments, and documents:

Form PTO-1595	Porm PTO-1595 RECORDATION FORM COVER SHEET  (continued)			
Additional Conveying Party(ies)/Execution Date(s) (1. Continued):				
Shubhangi KAMATK and Sebastian HOEF	AR (4/1/2004), Manjula ( RSCH (9/16/2002)	GANNAVARAPU (9/9/2002), Karen G	SLATT (9/10/2002),	
Additional Assign	ees (2. Continued):			
Assignee Name:				
Internal Address:				
Street Address:				
City:	State:	Country:	Zip:	
Assignee Name:		·		
Internal Address:				
Street Address:				
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City:	State:	Country:	Zip:	
Assignee Name:				
Internal Address:			<del></del>	
Street Address:				
City:	State:	Country:	Zip:	
Additional Applica	tions and/or Patents	(4. Continued):		
Additional Patent Application 4A. Continued:	on Numbers	Additional Patent Numbers 4B. Continued:		
		4		
		<b>1</b> 0		
		1 % [].		
	Additional numbers a	attached? Yes No		

2

### **ASSIGNMENT**

We, Robert Schlegel of Auburndale, Massachusetts, Yan Chen of Cambridge, Massachusetts, Xumei Zhao of Burlington, Massachusetts, John E. Monahan of Walpole, Massachusetts, Shubangi Kamatkar of Newton, Massachusetts, Manjula Gannavarapu of Acton, Massachusetts, Karen Glatt of Natick, Massachusetts, and Sebastian Hoersch of Arlington, Massachusetts, in consideration of One Dollar and other valuable consideration paid to us by

### Millennium Pharmaceuticals, Inc.

a corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, MA 02109, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

### Millennium Pharmaceuticals, Inc.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

NOVEL GENES, COMPOSITIONS, KITS AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER

described in an application

	executed by	us of even d	ate herewit	h and about to be filed	t
X	Serial No.	10/171,311	, filed on	June 12, 2002	

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS m	y hand and seal this $\times 12^{6}$	day of September, 2002	2.
		By: X M Subleys  Robert Schlegel	<u>/</u>
State of Mo85	schoets		
State of Mossociation Country of Mossociation 1 decreases	dlesex		
Then persona instrument to be his/l	lly appeared the above nam ner free act and deed, before	ed Robert Schlegel and acknowledge me, this 12 day of Explend	d the foregoing , 2002.
Service of the servic		Oscary Public	tem
		•	ma, 1,000 s
WITNESS my	hand and seal this	NASIM Notes Commonwealth My Comm My Comm , 2 (Max	G. MEMON uy Public h of Massachusetts ission Expires 1, 2009
		By:Yan Chen	
State of	) )ss		
County of	)		
Then personal nstrument to be his/h	lly appeared the above na er free act and deed, before	med Yan Chen and acknowledged ne, this day of	the foregoing, 2002.
		Notary Public	:
	44	My commission expires:	

(T)

	WITNESS my hand and seal this	day of	, 2002.
			By:Robert Schlegel
State Coun	of ) ss aty of )		
instru	Then personally appeared the abounced to be his/her free act and deed	ove named Robert I, before me, this _	Schlegel and acknowledged the foregoing day of, 2002.
	·	•	Notary Public
	WITNESS my hand and seal this	¿ Éthday of	My commission expires:
			By: X Janela Yan Chen
State Coun	of Mossochusetts  ss  ry of Middlesex		
		bove named Yan	Chen and acknowledged the foregoing
		(	Notary Public
			My commission expires: May 2009
· ·.			NASIM G. MEMON Notary Public Commonwealth of Massachusetts My Commission Expires May 1, 2009

with east my hand and seal this $\times$ $\cup$	day of _x >eptember_, 2002.
State of Moscochajette County of Middlesey	By: Xumej Zhao
County of middlesex	
Then personally appeared the above nar instrument to be his/her free act and deed, before	Notary Public  Nosary Public  Nosary Public  Notary Public  Notary Public  Commonwealth of Message pusetts
	By:
State of ) Sss County of )	
Then personally appeared the above na foregoing instrument to be his/her free act and dec, 2002.	amed James E. Monahan and acknowledged the ed, before me, this day of
	Notary Public
	My commission expires:

( )

WITNESS my hand and seal this	day of	, 2002.
SA.A C	By:	Tumei Zhao
State of )  County of )		
Then personally appeared the above reinstrument to be his/her free act and deed, before	named Xumei Zhao a ore me, this day o	and acknowledged the foregoing of, 2002.
	Notary P	ublic
	My comr	nission expires:
WITNESS my hand and seal this X	6 day of <u>x SEP</u>	TEMBER, 2002.
State of MosselvoseMi Sounty of MosselvoseMi Sounty of MosselvoseMi	By: 🗶 (	John E Monahan  mes E. Monahan  ohn  9/6/02
Then personally appeared the above foregoing instrument to be his/her free act and a 2002.	named James E. Me	onahan and acknowledged the
	Notary Pu	ty & Atem
	My comm	ission expires: May, 2009
	C	NASIM G. MEMON Notary Public ommonwealth of Massachusetts My Commission Expires May 1, 2009

WITNSS n	ny hand and seal this	day	of April	, 2004.	
			By: Shubh	ay lenangi Kamatkar	<del></del>
State of Massaca County of M; Jale	huse Hs )		ŕ		
Then perso	nally appeared the about to be his/her free act	ove named and deed, b	Shubhangi Kamat efore me, this <u></u>	kar and acknowled	edged the
	DIANA E. GENTILE Notary Public Commonwealth of Massachusetts My Commission Expires Oct 27, 2006		Notary Public	,	Lentile
WITNESS 1	ny hand and seal this	da		King .	
			By:Manjul	la Gannavarapu	
State of County of	) )ss )				
Then person oregoing instrumen, 2002.	ally appeared the above t to be his/her free act a	ve named ind deed, be	Manjula Gannavara fore me, this	pu and acknowle day of	dged the
			Notary Public		<del></del>
			My commission	n expires:	

	WITNESS my hand and seal this	day of	, 2002.
		By:Shubanghi k	
State	)ss		
Coun	ty of )		
forego	Then personally appeared the above ping instrument to be his/her free act and, 2002.	named Shubanghi Kamatkar an deed, before me, this day	d acknowledged the of
		Notary Public	
		My commission exp	ires:
	WITNESS my hand and seal this 🔀 🖔	th day of September	2002.
		By: Matilia Gan	navarapu
State-	of Mossechuse Ms		•
Count	of Mossechusells yof middlesex		
orego	Then personally appeared the above a sing instrument to be his/her free act and _, 2002.	amed Manjula Gannavarapu and leed, before me, this day o	l acknowledged the form ber
		Notary Public	2 Hom
		My commission expi	res: May 1,2009

NASIM G. MEMON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
May 1, 2009

WITNESS my hand and seal this x 10 th day of x September, 2002.

测)

	By: Xiony Staff Karen Glatt
State of Massochyselfs	
State of Massochysels  County of Mydd) escay	
Then personally appeared the above named Kare instrument to be his/her free act and deed, before me, this [	en Glatt and acknowledged the foregoing Odyday of Scotton be, 2002.
	Notary Public
WITNESS my hand and seal this day of	My commission expires:
·	By:Sebastian Hoersch
State of )	
County of )	
Then personally appeared the above named Se foregoing instrument to be his/her free act and deed, before, 2002.	bastian Hoersch and acknowledged the me, this day of
·	Notary Public
·	My commission expires:

V	WITNESS my hand a	ind seal this	day of _	, 2002.
		·		
			•	Ву:
				By: Karen Glatt
State of		)		
County o	o <b>f</b>	)ss		
County (		)		•
instrume	Then personally appoint to be his/her free	eared the above ract and deed, befo	named Karen re me, this	Glatt and acknowledged the foregoing day of, 2002.
			j	Notary Public
			1	My commission expires:
v	WITNESS my hand a	nd seal this 🗶 🥻	day of	September, 2002,
			1	By: X Sebastian Hoersch
State of	massocha	ietre		
County o	of middlese	<b>⅓</b>		
oregoin	hen personally app g instrument to be hi 2002.	eared the above s/her free act and	named Seba leed, before r	nstian. Hoersch and acknowledged the ne, this Way of Schember
:				Notary Public
				My commission expires: May 1, 2009
				NASIM G. MEMON Notary Public Commonwealth of Massachusetts My Commission Expires May 1, 2009